

### **DETAILED ACTION**

1. This action is responsive to remand by the Board to cancel the expressly or implicitly withdrawn claims.

Claims 2-3,5-7,9-11,15-20,22,34-35,37-39,41-43, 47-52, 54 are cancelled.

Claim 12 is considered as an independent claim with claim 11 limitations added into claim 12 to make into independent claim 12. Therefore, claim 12 as independent claim with limitation from claim 11.

Claim 23 is considered as an independent claim with claims 1, 22 limitations added into claim 23 to make into independent claim 23. Therefore, claim 23 as independent claim with limitation from claims 1, 22.

2. Please see the attached PTO-90C for more information.
- 3.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dhairya A. Patel whose telephone number is 571-272-5809. The examiner can normally be reached on Monday-Friday 8:00AM-5: 30PM, first Fridays OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2451

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DAP

/John Follansbee/

Supervisory Patent Examiner, Art Unit 2451